

Dhamodhara Kannan

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PROFESSIONAL SUMMARY

Full stack engineer with over two years of experience, mostly on the .NET stack – **C#**, **ASP.NET**, and **SQL Server** – with **React** on the front end and **REST APIs** in between. Comfortable coding in more than one language (C#, TypeScript, JavaScript, Python) and picking the right tool for the problem. A believer that quality comes from prevention rather than detection: practices **Test Driven Development (TDD)** and blends development with testing as a matter of habit. Worked through all phases of the SDLC in Agile/Scrum teams, shipping through automated CI/CD pipelines, and has also been building AI integrations on the side – an MCP server and a RAG system.

TECHNICAL SKILLS

Core: .NET, C#, ASP.NET Core, React.js, Redux Toolkit, JavaScript, TypeScript, Python, RESTful APIs, SQL Server, T-SQL, Database Design, HTML5, CSS3, jQuery

Practices: Test Driven Development (TDD), Agile/Scrum, Code Reviews, Refactoring, Unit / Integration / Functional / End-to-End Testing (Jest, Playwright), Secure Coding

Tools: Visual Studio, VS Code, PowerShell, Git, Bitbucket, Jira, Azure DevOps

Back-end and Data: ASP.NET Core, Node.js, SQL Server (query optimization, EF Core), MongoDB, Redis, Elasticsearch, Kafka

DevOps and Platforms: CI/CD pipelines (Azure DevOps), Docker, Windows, IIS (deployment basics), Linux/Ubuntu, AWS, Telemetry, Application Monitoring

AI and Integration: Model Context Protocol, Agentic AI, RAG, Embeddings, Vector Databases, Claude Code

PROFESSIONAL EXPERIENCE

Software Engineer

May 2025 – Present - TransPerfect, Chennai, India

- Develop full-stack features day to day: C# / ASP.NET Core services with RESTful APIs on the back end, React on the front end, and MongoDB for persistence – involved in everything from requirements discussions and task estimation to production support.
- Practice test-first development (TDD): brought coverage up from 40% to 85% with Jest unit and integration tests plus Playwright functional and end-to-end suites, catching regressions before release rather than after.
- Worked on front-end performance for a high-traffic application – reworked rendering and asset loading, which cut initial page load time by roughly 40%. The interfaces are responsive, adaptive, and accessible (a11y).
- Sped up search from around 850ms to under 200ms using Elasticsearch and Redis caching.
- Built an MCP (Model Context Protocol) server in TypeScript/Node.js that wraps Azure DevOps and automates routine developer workflows – environment setup, repetitive tasks – through AI tooling and PowerShell scripting on Windows.
- Regular participant in code reviews, refactoring efforts, and architecture discussions in Agile/Scrum teams; deploy and support services through automated Git-based CI/CD pipelines with attention to secure coding.

Full Stack Engineer

May 2024 – May 2025 - Codingmart Technologies, Coimbatore, India

- Built full-stack applications on .NET/C# and SQL Server in Visual Studio – designed relational schemas and wrote optimized T-SQL (joins, indexing) alongside EF Core, owning features from the UI down to the database.
- Also delivered MERN-stack projects (MongoDB, Express, React, Node.js) and maintained jQuery-based front-end code for interactive client applications, tracking work through Jira and documenting in Confluence.
- Put together a library of reusable Material UI components that three client applications ended up sharing, and tuned React/Redux state management to cut unnecessary re-renders – page interaction time improved by about 30%.

PROJECT

AI-Powered RAG Assistant

- A chat application built with React and TypeScript – streaming responses, real-time interactions, Zustand for state.
- The retrieval side runs over a repository of 1,200+ documents using embeddings and semantic search on Pinecone, with retrieval typically under 400ms.
- Spent real time on prompt engineering and evaluation; grounding improvements cut hallucinated answers by roughly a third.

EDUCATION

Bachelor of Computer Science and Engineering

May 2020 – May 2024

Sri Krishna College of Technology, Coimbatore, India